

## ITINERARY OF YNES MEXIA IN SOUTH AMERICA

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A brief summary of the itinerary of Mrs. Ynes Mexia during her recent collecting expedition to Brazil and Peru is herewith presented. Such a record, it is believed, will prove useful to botanists in various institutions who engage in the study of the plants. All data are taken from the collector's field books.

The actual collecting period was from November 15, 1929 to February 10, 1932. The collections are numbered serially from 4001 to 6518. In many cases a letter was added for further segregation (4001a, 4001b, etc.). The total number of specimens in the collection, including duplicates, amounts to more than sixty thousand.

From Rio de Janeiro, the port of arrival, Mrs. Mexia proceeded to the state of Espiritu Santo, a short distance northward up the coast. The first objective was the ascent of Caparaó, a mountain lying on the boundary line between the states of Espiritu Santo and Minas Geraes. Collections were made in this general vicinity and during the ascent of the mountain. Mrs. Mexia then returned to Rio de Janeiro and from there proceeded northward to the interior highlands. She established headquarters at the Agricultural College at Viçosa where she remained for more than a year in order to make representative collections at all seasons. She next visited Diamantina, the classic collecting ground of Martius, two hundred miles north of Viçosa. Returning to Rio de Janeiro, she embarked on a coastwise steamer for the mouth of the Amazon. One stop was made en route at Cabedelo in the state of Parahyba. At Pará, the capital of the state of the same name, two months were devoted to collecting.

Mrs. Mexia then embarked for Iquitos, Peru, twenty-five hundred miles up the Amazon. Many short stops were made by the wood burning steamer for refueling and other purposes, and at two of these, in the state of Amazonas, a few numbers were collected. On September 20, 1931, the twenty-fourth day of the voyage, the boat arrived at Iquitos. Here preparations were made for continuing the voyage to the head of navigation of the Amazon. Securing a native guide and two "civilized Indian" helpers, Mrs. Mexia ascended Rio Marañon by launch and canoe to Pongo de Manseriche, the great gorge of the Amazon. Having established headquarters a few miles above the gorge, she devoted the next three months to collecting. This region is uninhabited except by the nomadic Aguaruna Indians. The return journey down the river was made on board a raft constructed by one of the guides. After collecting in the vicinity of Iquitos, Mrs. Mexia crossed the Andes by plane and, finally

arriving at Lima on the west coast, embarked for the United States.

Sets of the Mexia South American collections are deposited in the following institutions: UNITED STATES: Academy of Natural Sciences, Philadelphia; Arnold Arboretum, Mass.; California Academy of Sciences, San Francisco; Catholic University of America, Washington, D. C.; Field Museum of Natural History, Chicago; Gray Herbarium, Harvard University; Missouri Botanical Garden, St. Louis; New York Botanical Garden; United States National Museum, Washington, D. C.; University of California, Berkeley; Wellesley University, Mass. EUROPE: Botanical Museum, Copenhagen; Botanischer Garten und Museum, Berlin-Dahlem, Germany; British Museum; Conservatoire et Jardin Botaniques, Geneva; Muséum d'Histoire Naturelle, Paris; Naturhistoriska Riksmuseet, Stockholm; Royal Botanic Gardens, Kew; University of Zürich.

Following are the localities where collections were made, together with dates and corresponding collection numbers.

#### RIO DE JANEIRO, BRAZIL

Rio de Janeiro. Nov. 15, 1929, 4001-4002; June 14, 1930, 4786; June 1, 1931, 5901-5903.

#### ESPIRITU SANTO, BRAZIL

Serra do Caparaó, Santa Barbara do Caparaó and Alegre. Nov. 20, 1929 to Nov. 25, 1929, 4003-4027; Nov. 27, 1929, 4033; Nov. 29, 1929 to Dec. 7, 1929, 4038-4107.

#### MINAS GERAES, BRAZIL

Serra do Caparaó. Nov. 26, 1929, 4028-4032 and 4034-4037.

Viçosa. Dec. 16, 1929 to Jan. 10, 1930, 4108-4217; Feb. 10, 1930 to Apr. 28, 1930, 4335-4650; May 10, 1930 to June 7, 1930, 4678-4689a and 4691-4785; June 24, 1930 to Sept. 10, 1930, 4787-4950; Sept. 11, 1930 to Oct. 16, 1930, 5030-5185; Oct. 16, 1930 to Oct. 24, 1930, 5215; Oct. 25, 1930 to Oct. 28, 1930, 5220-5226; Oct. 29, 1930 to Nov. 4, 1930, 5233-5249; Nov. 4, 1930 to Nov. 5, 1930, 5256-5258a; Nov. 6, 1930 to Nov. 12, 1930, 5265-5292; Nov. 17, 1930 to Nov. 24, 1930, 5309-5350; Nov. 26, 1930, to Dec. 20, 1930, 5357a-5429a; Dec. 22, 1930 to Dec. 27, 1930, 5431-5454a; Dec. 29, 1930 to Jan. 2, 1931, 5459-5472; Jan. 5, 1931 to Jan. 7, 1931, 5481-5487; Jan. 8, 1931, 5488a; Jan. 9, 1931, 5496a-5500; Jan. 15, 1931, 5496a.

Districto Carangola. Jan. 25, 1930 to Feb. 6, 1930, 4218-4334; May 12, 1931, 4690.

Districto Viçosa. May 2, 1930 to May 6, 1930, 4651-4677a; May 12, 1930, 4690.

Districto Ilheu. Aug. 15, 1930 to Aug. 31, 1930, 4951-5029.

Districto Dante. Aug. 25, 1930, 4999a.

Districto Casca. Aug. 28, 1930, 5011a-5017.

Districto Rio Branco. Oct. 16, 1930, 5186-5187; Oct. 24, 1930, 5216-5219; Oct. 28, 1930, 5227-5232; Nov. 4, 1930, 5250-5255; Nov. 6, 1930, 5259-5264; Nov. 13, 1930 to Nov. 14, 1930, 5293-5308; Nov. 25, 1930, 5351-5357; Nov. 28, 1930, 5375; Dec. 19, 1930, 5430; Dec. 27, 1930, 5455-5458; Jan. 2, 1931 to Jan. 3, 1931, 5473-5480; Jan. 8, 1931, 5488-5496.

Districto Corinto. April 1, 1931 to April 22, 1931, 5501-5700.

Diamantina. Apr. 28, 1931 to May 2, 1931, 5701-5743; May 4, 1931 to May 15, 1931, 5749-5818a; May 14, 1931 to May 16, 1931, 5834-5857a.

Districto Diamantina. May 3, 1931, 5744-5748; May 13, 1931, 5819-5833; May 19, 1931 to May 21, 1931, 5858-5900.

PARAHYBA, BRAZIL

Cabedelo. June 18, 1931, 5905-5906.

PARÁ, BRAZIL

Districto Belém. June 29, 1931, 5907-5913; Aug. 16, 1931, 6064-6065.  
Districto Acará. July 16, 1931 to Aug. 6, 1931, 5914-6063.  
Districto Jurutý. Sept. 2, 1931, 6066.

AMAZONAS, BRAZIL

Ilha das Oncas. Sept. 3, 1931, 6067-6068.  
Rio Solimoes. Sept. 10, 1931, 6069.

DEPARTAMENTO LORETO, PERU

Yurimaguas. Oct. 24, 1931 to Oct. 26, 1931, 6070-6089; Dec. 1, 1931, 6101-6129.

Above Pongo de Manseriche. Nov. 13, 1931 to Nov. 28, 1931, 6132-6184a; Nov. 29, 1931 to Dec. 13, 1931, 6191-6267; Dec. 18, 1931 to Jan. 3, 1932, 6290-6381.

Sierra del Pongo. Nov. 29, 1931, 6185-6189; Dec. 15, 1931, 6268-6289a.  
Below and in Pongo de Manseriche. Jan. 5, 1932, 6382-6383.

Alto Marañon. Jan. 11, 1932, 6384a.

Distrito Iquitos. Jan. 20, 1932 to Jan. 29, 1932, 6385-6475; Feb. 2, 1932, 6476; Feb. 6, 1932 to Feb. 10, 1932, 6477-6518.

Berkeley, California,  
April, 1935.

## A NEW CARDAMINE FROM NORTHERN IDAHO

LEROY E. DETLING

*Cardamine Constancei* sp. nov. Planta glabra, perennis; rhizomate ramoso, diametro 2 mm. vel minus; caule 15-30 cm. alto, erecto, simplice, infere purpurascens; foliis 4-7, plerumque parte media superave caulis approximatis, simplicibus, ovatis, 3-8 vel 10 cm. longis, grosse serratis vel rarius undulatis, petiolatis; racemo pauci-floro; pedicellis 10-17 mm. longis; sepalis 6 mm. longis, margine scarioso; petalis roseis, in sicco purpurascens; siliquis maturis ignotis.

Glabrous perennial from a branching rootstock not exceeding 2 mm. in diameter; rhizomal leaves none; flowering stem 15-30 cm. high, erect, unbranched, purplish below; leaves 4-7 in number, mostly crowded together at the middle or upper part of the stem, ovate, 3-8 or 10 cm. long, the margins coarsely serrate or less frequently merely undulate, on petioles 5-20 mm. long; raceme few-flowered; pedicels 10-17 mm. long; sepals 6 mm. long, scarious-margined; petals pink, drying purplish, the blade